

Бенделіани А. Я.

15-57-7-9624

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
126 (USSR)

AUTHOR: Бенделіани. А. Я.

TITLE: Original Zoning in the Hydrothermal Ore Deposits of
Georgia (Fervichanaya zonal'nost' v gidrotermal'nykh
rudnykh mestorozhdeniyakh Gruzii)

PERIODICAL: Tr. Gruz. politekhn. in-ta, 1956, Nr 3 (44), pp 32-39.

ABSTRACT: The author reviews the development of the theory
pertaining to original zoning of hydrothermal deposits,
and proceeds to a criticism of views expressed by N. M.
Prókopenko. The latter admits that zoning in the
Caucasus is associated, to a considerable degree, with
structural factors; that is, he recognizes "intermittent
zoning," which occurs with intermittent inflow of ore-
bearing solutions of various composition into newly
forming fissures. However, he mistakenly assumes the
development of zoning, as defined by Emmons, in some
areas. According to this view, zoning was caused by

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Original Zoning in the Hydrothermal Ore Deposits (Cont.) 15-57-7-9624

variation in the solutions in space, especially in the horizontal direction around separate intrusive blocks. However, direct intermittent zoning is of basic importance both in the vicinity of and at a distance from all ore-bearing bodies of Georgia. Thus, for example, zoning as understood by Emmons is not observed at all in the Tsenskiy, Chorokhskiy, and other ore-bearing intrusives; instead, the multi-stage nature of the ore-forming process is distinctly seen to be associated with tectonic movements. There is no gradual transfer of lead-copper mineralization into copper and of copper mineralization into pyrite in the Merisi group of deposits, as was indicated by N. M. Prokopenko. Here the author shows two distinct stages of mineralization--an earlier quartz-chalcopyrite, and a later galena-sphalerite. The general extension of one or another stage and period into the depths does not depend on original zoning, but rather on structural and lithologic factors, and especially on a favorable combination of these factors. Thus Prokopenko's assertion that a relatively rapid thinning of valuable mineralization at 100 m to 300 m is characteristic for the Caucasian hydrothermal deposits is erroneous; structural and lithologic

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Original Zoning in the Hydrothermal Ore Deposits (Cont.)

factors would play a part here. However, zoning is distinctly evident in some deposits. The barite mineralization of the Madneul'skoye deposit gradually passes with depth into a quartz-carbonate-sulfide deposit. This is, no doubt, associated with the decrease of the amount of the oxygen with depth. But Emmon's concept of zoning and the practical conclusions of some investigators that mineralization of hydrothermal deposits tapers off relatively rapidly with depth are not true for Georgia as a whole.

Card 3/3

A. B. Belyavskiy

BENDELIANI, A. Ye., KASHKAY, M.A., TVIICHVELIANT, A.Ye., MAGIKYAN, I.S.,
MERTCHAN, S.S., YHARCHUK, L.P.

"On Metallogeny in the Caucasus." Report presented at the Inter-
departmental Conference on the Problems of the Metallogeny of the
Caucasus, Tbilisi 3-13 May 1957.

Sum 1582

HEDELIANI, A.Yo.

Division of Georgia into metallogenetic provinces. Izv. vys. ucheb.
zav.; geol. i razv. 1 no.12:95-100 D '58. (MIRA 12:12)

1. Tbilisskiy politekhnicheskiy institut.
(Georgia--Ore deposits)

BENDELANI, N.A.; VERESHCHAGIN, I.F.

Synthesis of dense modifications of silica with the use of water at a pressure of $150 \cdot 10^3$ kg/cm². Dokl. AN SSSR 198 no.4:819-820 0 '64. (MIRA 17:11)

1. Institut fiziki vysokikh davleniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Vereshchagin).

L 12J50-65

ACCESSION NR: AP4C47319

tained at $150 \times 10^3 \text{ kg/cm}^2$ and 450C and was identified by x-ray diffraction patterns as stiboverite. Further experiments at 450C with various pressures made it possible to trace a point on the coesite-stiboverite-phase equilibrium diagram at 450C and $(130 \pm 5) \cdot 10^3 \text{ kg/cm}^2$. Crystallization of dense silica forms at even lower temperatures is believed possible by adding water-soluble salts which would lower the melting point of ice. Further developments in the study of phase equilibria and in the method for growing single crystals are expected to follow from the study of hydrothermal processes at high pressures. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Institut fiziki vysokikh davleniy Akademii nauk SSSR
(Institute of Physics of High Pressures, Academy of Sciences SSSR)

SUBMITTED: 12Jun64

ATD PRESS: 3122

ENCL: 00

SUB CODE: SS, MT

NO REF SOV: 002

OTHER: 005

DAKHOV, V.N.; KOBRANOVA, V.N.; PECHERNIKOV, V.P.; BENDEL'SHEVYM: B.Yu.;
KHOLIN, A.I.; POZIN, L.Z., D'YAKONOV, D.I.; LATYSHEVA, M.G.;
LOBRYNIN, V.M.; LARIONOV, V.V.; NEYMAN, Ye.A.; LEBELIN, A.P.

Terminology and symbols used in applied geophysics. Prikl. geofiz.
no.27:223-235 '60. (MIRA 13:12)
(Prospecting--Geophysical methods)

BEDEL'STON, P.A. (Krasnoyarsk, Parkovaya ul., d.4, kv.4)

One-stage closure on an external biliary fistula according to E.V. Smirnov's method. Vest.khir. 77 no.10:104-106 O '56. (MLRA 9:12)

1. Iz gospi'tal'noy khirurgicheskoy kliniki (zav. - prof. A.M. Dykhno) Krasnoyarskogo meditsinskogo instituta.

(BILIARY TRACTS, fistula
surg. closure, method)

BENDEL'STON, P.A.; GAVRILEVA, G.A.

Two cases of traumatic toxicosis. Khirurgiia 35 no. 5:104-105 My
159. (MJ \ 13:10)

(SHOCK)

TOPORKOV, L.; BENDER, A., red.; RAKHIMOV, T., tekhn. red.

[Striding toward tomorrow; about Uktam Iriskulov's communist labor brigade] Idushchie v zavtra; ocherk o brigade kommunisticheskogo truda Uktama Iriskulova. Tashkent, "Esh gvardiia," 1961. 19 p. (MIRA 15:7)
(Tashkent--Agricultural machinery industry)
(Tashkent--Socialist competition)

RATSEK, Vladimir Iosifovich, al'pinist; BENDER, A., red.; RAKHIMOV, T.,
tekhn. red.

[Riddle of the snow man] Zagadka snezhnogo chelevka.
Tashkent, Izd-vo TsK LKSM Uzbekistana "Esh gvardia."
1962. 109 p. (MIRA 16:7)
(Pamiqs--Russian exploration)

BENDER, D. YU

264

Mikhail Nikitovich Koptelov. Brigadir Elektromonterov Ts kha smaliyovaniya
Provodov Zavoda "Moskabel'" M., TSBTI, 1954. 12 S. S Ill. 22SM. (K-vo
Elektrotekhn. Prom-sti Ssr. Novatory Proizvodstva). 1.500EK. Bespl.-Sset
Ukazany Na Uborote Tit. L. --(54-54980) P.

621.315.3st t 667.73st

BENDER, ILI.

One more symptom of chorea.
Pediatria no. 3. 1952

BENDER, I.O., kand.med.nauk; FRIMES, N.P.

Health education on the protection of mothers and children in a district. Ped., akush. 1 gin. 22 no.4:35 '60. (MIRA 14:5)

1. Glavnyy pediater Odesskoy oblasti (for Bender). 2. Likar-metodist Odes'kogo oblasnogo budinku sanitarnoi osviti (for Frimes).
(BOLGRAD DISTRICT--INFANTS--CARE AND HYGIENE)

L 4237-66

EWT(m)/SPA(w)-2/EWA(m)-2 IJP(c)

OS

S/0000/64/000/000/1065/1072

51
B41

ACCESSION NR: AT5007979

AUTHOR: Abramyan, Ye. A.; Bender, I. Ye.; Bondarenko, L. N.; Budker, G. I.;
Glagolev, G. B.; Kacymov, A. Kh.; Meshkov, I. N.; Naumov, A. A.; Pal'chikov, V.
Ye.; Panasyuk, V. S.; Popov, S. G.; Prutopopov, I. Ya.; Rodionov, Yu. I.;
Samoylov, I. M.; Skrynskiy, A. N.; Yudin, L. I.; Kon'kov, N. G.; Mostovoy, Yu. A.;
Nezhevanko, O. A.; Outreyko, G. N.; Petrov, V. V.; Sokolov, A. A.; Timoshin, I. Ya.

TITLE: Work on the strong-current accelerators of the Nuclear Physics Institute,
SO AN SSSR. (I) Strong-current pulse accelerators with spiral storage of the elec-
trons. (II) Strong-current accelerators with one-revolution capture of the in-
jected electrons

SOURCE: International Conference on High Energy Accelerators. Dubna, 1963. Trudy.
Moscow, Atcmizdat, 1964, 1065-1072

TOPIC TAGS: high energy accelerator, electron accelerator, electron beam, betatron,
plasma

ABSTRACT: The work on developing strong-current electron ring accelerators
was begun in 1965 by the authors at the Nuclear Physics Institute, Siberian Depart-
ment, Academy of Sciences SSSR, with the object of studying the possibility of
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ACCESSION NR: AT5007979

forming relativistic stabilized beams. In the laboratories of the Institute experimental studies were carried out on the four methods for obtaining large ring currents of relativistic electrons: (1) spiral method of storing the electrons in installations of the betatron type with subsequent betatron synchrotron acceleration. (Budker G. I. CERN Symposium 1, 68 (1956)); (2) obtaining of limiting electron currents by means of the injection of electrons from a strong-current linear accelerator into a ring chamber of large aperture with subsequent synchrotron acceleration; (3) storage of electrons in tracks (parking orbits) with constant magnetic field by means of the multiple injection of electrons from another less strong-current accelerator; this method is utilized for the storage of electrons and positrons in experiments with colliding beams (expounded in detail by G. I. Budker in the present collection, p. 274); (4) obtaining of large electron currents by means of the acceleration of electrons by a ring plasma. The present report discusses the first two methods under the following topics: (I) pulsed iron-less betatron with preliminary charge storage (B-2 device); strong-current pulsed synchrotron B-2S; pulsed strong-current betatron with spiral storage (B-3 device). (II) iron-less one-turn strong-current synchrotron (BSB); strong-current pulsed synchrotron B-3M. Orig. art. has: 7 figures.

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L 4237-66

ACCESSION NR: AT5007979

ASSOCIATION: Institut yadernoy fiziki SO AN SSSR (Nuclear Physics Institute,
SO AN SSSR)

SUBMITTED: 26May65

ENCL: 00

SUB CODE: NP

NO REF SOV: 001

OTHER: 001

Deh
Card 3/3

HENDER, Jan

Results of preliminary research on the influence of mechanical cultivation and some field crops on the texture of the soil.
Prace nauk roln i lesn 12 no.3:113-134 '62.

1. Chair of Science of Soils and Chair of General Cultivation of Soil and Vegetation, School of Agriculture, Poznan.

BENDER, Jan

Studies on the influence of prewinter soil tillage and mineral fertilizing on the yield of *Crambe abyssinica*.
Roczniki wuz szkola rol Poznan 15 79-102 '63.

1. Department of General Soil Tillage and Plant Cultivation; College of Agriculture, Poznan.

PENDER, Jan; RZASA, Stanislaw

Dynamics of soil compactness under certain cultivated plants. Prace nauk roln i lesn 14 no,3:357-381 '63. [publ. '64].

1. Department of General Soil Tillage and Plant Cultivation and Department of Soil Science, College of Agriculture, Poznan.

Balash, Jan; Kozak, Stanislaw

Alfalfa and red clover as factors affecting the soil
compactness of sandy and clayey soils. *Travaux de l'Institut de
18 no. 1:171-191 1964.*

1. Department of General Soil Tillage and Fertilization, Institute of Soil Science
Department of Soil Science, College of Agriculture, University of Agriculture, Lublin, Poland.

BENDER, K. I., Cand Med Sci -- (diss) "Effect of lobeline
and morphine upon respiration ~~in~~ ^{under} various conditions of the
organism (experimental study)." Saratov, 1957. 11 pp (Min
of Health RSFSR, Saratov State Med Inst) (KL, 52-57, 111)

- 104 -

BENDER, K.I.

Influence of morphine on the resistance of white mice to oxygen deficiency under various body conditions. Trudy Sar. gos. med. inst. 26:112-115 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra farmakologii (zav. - dotsert B.G. Volynskiy).
(ANOXEMIA) (MORPHINE) (PHENETHYLAMINE) (CARBAMIC ACID)

VOLYNSKIY, B.G.; BENDER, K.I.

Effect of morphine on respiration and hemodynamics in hypothermia.
Farm.i toks. 23 no.6:500-503 N-D '60. (MIRA 14:3)

1. Kafedra farmakologii (zav. .. dotsent B.G.Volynskiy) Saratovskogo
gosudarstvennogo meditsinskogo instituta.
(MORPHINE) (HYPOTHERMIA)
(RESPIRATION) (BLOOD-CIRCULATION)

SKOPIN, I.V., dotsent [deceased]; TATARINOVA, T.Ye.; FREYDMAN, S.L.;
BENDER, K.I.

Simulated arterial hypertension produced by large doses of
ephedrine and theophedrine. Terap.arkh. 32 no.9:64-65 '60.
(MIRA 14:1)

1. Iz kafedry sudebnoy meditsiny (zav. - dotsent I.V. Skopin)
Saratovskogo meditsinskogo instituta.
(EPHEDRINE) (XANTHINE) (HYFERTENSION)

VOLYNSKIYY B.G.; FREYDMAN, S.L.; BENDER, K.I.; KUZ'MINA, K.A.;
KUZNEZKOVA, S.G.; MARTYNOV, L.A. (Saratov)

Prevention and treatment of radiation sickness in an experiment.
Med.rad. no.9:81 '61. (MIRA 15:1)
(RADIATION SICKNESS)

FURSAYEV, A.D., nasl. deyatel' nauki RSFSR, doktor biol. nauk
[deceased]; VORONINA, K.V.; VOLYNSKIY, B.G., kand. med.
nauk; FHEYDMAN, S.L.; BENDER, K.I.; KUZ'MINA, K.A.;
MARTYNOV, L.A.; KUZNETSOVA, S.G.; VINNIKOVA, I.A., red.;
ZENIN, V.V., tekhn. red.

[Medical plants and their utilization in medicine] Lekar-
stvennye rasteniia i ikh primenenie v meditsine. [n.p.]
Izd-vo Saratovskogo univ., 1962. 202 p. (MIRA 16:6)
(BOTANY, MEDICAL)

VOLYNSKIY, B.G.; BENDER, K.I.; FREYDMAN, S.L.; VISHNIKOVA, I.A.,
red.

[Prescription manual; textbook for physicians and students] Retsepturnyi spravochnik; posobie dlia vrachei i studentov. Izd.2., dop. i perer. Saratov, Izd-vo Saratovskogo univ., 1964. 206 p. (U.S. 1000)

7

ACC NR: AR7000600 (M) SOURCE CODE: UR/0417/66/000/010/0002/0002

AUTHOR: Volynskiy, B. G.; Bender, K. I.; Freydmann, S. L.; Kuznetsova, S. G.; Martynov, L. A.; Bogoslovskaya, S. I.

TITLE: Reaction of the organism to drugs during hypothermia

SOURCE: Ref. zh. Farmakol, khimioterapevt sredst, toksikol, Abs. 10.54.4

REF SOURCE: Tr. Saratovsk, med. in-ta, no. 40(66), 1966, 104-107

TOPIC TAGS: hypothermia, drug, respiratory drug, rabbit, reaction rate, blood, cardiac activity, tissue metabolism

ABSTRACT: The effects of some drugs on hemodynamics, respiration and tissue metabolism was studied in mice, rats and rabbits cooled to 19---20C. Caffeine (10 mg per kg) and euphyllin (4.8 mg per kg) have caused a stable decrease of AD and have depressed the tissue metabolism levels (the quantity of glycogen, ATP and electrolytes). Cordiamin (25 mg per kg) has also depressed the AD and interfered with the respiratory and cardiac activity. Lobeline did not affect the respiration. Bemegride and KCl have lowered the AD and sharply inhibited

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UDC: 615.1

ACC NR: AR7000600

respiration. The effect of adrenaline and mesaton (0.1 mg per kg) on respiration and AD did not vary. Morphine (1 mg per kg) did not contribute to an increase of inhibiting effect of hypothermia on respiration and blood circulation. Hypoglycemic effect of insulin and spastic effect of strychnine and camphor was found to be weaker during hypothermia. A. Novik. [Translation of abstract] [AM]

SUB CODE: 06/

Card 2/2

BENDER, Matvey Mironovich; BURKOV, V.I., redaktor; FEDOROV, B.M., re-
daktor; VILKHOVER, R.S., tekhnicheskij redaktor.

[Safety engineering in the woodworking industry] Osnovy tekhniki
bezopasnosti v derevoobrabatyvaiushchem proizvodstve. Moskva,
Goslesbumzdat, 1954. 171 p. (MLRA 8:1)
(Woodwork--Safety measures)

BENDER, M.M.

КОПЕИКИН, В.А.; ПЕКЛО, М.И.; ХАНИН, И.Ф.

Textbook on safety techniques ("Principles of safety techniques
in the woodworking industry" M.M.Bender, Reviewed by B.A.Kopeikin,
M.I. Peklo and I.F. Khanin.) Der.prom.4 no.4:30-31 Ap '55
(Bender M.M.) (MLBA 8:6)
(Woodworking industries--Safety measures)

BENDER, N.A.

BENDER, N.A.

Imena russkikh liudei na karte mira. Moskva,
Geografiz, 1948. 158 p. (Russkie puteshestvenniki)
Bibliographical footnotes.

DLC: G106.E45

SO: L. C. Soviet Geography, Part I, 1951, Uncl.

BENDE , Ya.

Bender, Ya.

"Some problems of the biology and agricultural engineering of *Cranbe abyssinica*." Moscow Order of Lenin Agricultural Academy, Ineni K. A. Zhiryayev. Moscow, 1956. (Dissertation for the degree of Candidate in Agricultural Sciences).

Knizhnaya letopis'
No. 21, 1956. Moscow.

BENDER, YA.S.

Self-closing air valve. Rab. energ. 2 no. 5, 1952

3.11.11, Y. 1.

Blowpipe

Self-locking air pistol. Iron. energy, 4, No. 2, 1.5.

Monthly list of Russian Acquisitions, Library of Congress, April 1951. "CIA" 1951.

BENDER V, N. and IV. DIMITROV:

Tekhnicheski rusko-bulgarski rechnik. Sofia, 1947. 302 p.

Russian-Bulgarian technical dictionary.

DLG:T9.B44

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BENDEROV, H.

"Assembling Turbine Units in Construction of Hydroelectric-Power Stations with Many Turbine Units."

p. 17 (Elektroenergiia, Vol. 9, No. 6, June 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 11,
Nov. 1958

SMILIIANOV, G., Prof.; BOIANOV, B., prof.; NIKOLOV, B.; KRAIOVSKI, St.;
AVRAMOV, D.; BENDERLIEV, M.; KHRISTOZOV, T.; ONSHRYA, N.; RUSKOV, R.;
LIKOV, Gh.

Considerations of the social position of edentulous in Bulgaria.
Stomatologia, Sofia. No.1:41-49 1955.

1. Iz katedrata po ortopedichna stonatalogia pri Visshia med.
institut V. Chervenkov --Sofia, Zav. katedrata: prof. G. Smil-
lianov.

(~~TEETH~~,
edentulous, soc. aspects in Bulgaria)

BENDER V, **IV**.

"Our Brown Glassy Coal Can Be Used as a Basis for the Production of Coke",
p. 3. (TEKHNIЧЕСКО ДЕЛО, Vol. 5, no. 113, Sept. 1950, Sofia, Bulgaria).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 4, April 1954.

BENNEROVA, Vera Nikolayevna; DANILOVA, M., red.

[A track on the earth; a documentary tale] Sled na zemle;
dokumental'naiia povest'. Moskva, Molodaiia gvardiia, 1968.
186 p. (MIRA 18:6)

Measuring true heat capacity of glasses, of silver iodide, and of AgI-KI eutectic melt in the temperature range of 50-300°. A. M. Benderovich and A. M. Vratkin, Trudy Sibir. Fiz.-Tekh. Inst., Tomsk. Univ. 1953, No. 32, 203-9, Referat. Zhur., Fiz. 1955, No. 11323.---In a study of glass structure a thermal analysis is usually made by taking the heating and cooling curves, the form of which depends to a great degree on the heating process. A thermal analysis of glass was made by measuring the temp. relation of its heat capacity. Heat capacity was measured in a brass calorimeter contg. a powd. sample, a constantan heater, and a thermocouple. The calorimeter was placed in a thermostat, the temp. of which was kept const. within 1°, temp. fluctuations in the sample being not more than 0.2°. Heat capacity of the empty calorimeter was detd. by measuring the heat capacity of the calorimeter filled with powd. β -quartz, heat capacity of which was known. Heat capacity from 80° to 240° was measured for 3 samples of K silicate glass with compn. of K_2O 20, SiO_2 80 mol.% (heated 205 and 963 hrs. at 620°), and for a sample of Na silicate glass with compn. of Na_2O 23, SiO_2 77 mol.%. The error of measurement did not exceed 12%. In the change of heat capacity no anomalies were observed in any sample; this indicates the absence of noticeable amts. of SiO_2 , since phase conversions in free SiO_2 would cause anomalous absorption of heat. The sensitivity of the method was insufficient for a conclusion concerning presence of SiO_2 in the sample of soda glass. When heat capacity of powd. AgI was measured at 145.0°, a sharp heat-capacity max. was observed, corresponding to a polymorphous $\beta \rightarrow \alpha$ conversion. Heat capacity of a AgI-KI eutectic melt was measured close to 145.0°. The absence of an anomalous absorption of heat is considered proof of the existence of the chem. compd. $(AgI)_2KI$ in the system.

(Clipped Abstract)

Marjorie Ketner

BENDEROVICH, I.M.

Specialization in canning factories. Kons. 1 ov. prom. 13 no.7:39-
40 JI '58. (MIRA 11:6)

1. Stalingradskiy konservnyy zavod.
(Canning industry)

FARRER, L.D.; BEMMEROVICH, I.M.

Washing of returned glass containers with a continuous water
and steam jet. Kons. 1 ov. prom. 14 no.10:24-25 0 '59.
(MIRA 12:12)

1. Stalingradskiy konservnyy zavod.
(Canning and preserving--Equipment and supplies)

BENDEROVICH, I.M.; TIMOSHINA, N.I.

Production of canned vegetables without frying. Kons.i ov.prom.
17 no.9:8-9 S '62. (MIRA 15:8)

1. 'Sentral'naya eksperimental'no-tekhnologicheskaya laboratoriya
Volzogradskogo sovnarkhoza.
(Vegetables, Canned)

BENDERSKAYA, A. S.

FA 50/49T71

USSR/Medicine - Malaria
Medicine - Dysentery

May/Jan 49

"Annotated List of Russian Books" 5 pp

"Pediatriya" No 3

Reviews 11 books, among them "Monocytosis in Infantile Malaria, by A. G. Zvereva, "Problems of Infantile Neuromalaria in the Transcaucasus," by A. I. El'darov, "Clinical and Differential Diagnoses of Acute Gastrointestinal Diseases and Chronic Dysentery in Young Children," by A. S. Benderskaya, "Using Gramicidin Enemas in the Treatment of Dysentery in Young Children," by A. A. Kaydalova, and "Data on Infantile Lambliosis From Chernovitskaya Children's Clinical Hospital," by V. V. Arkipova.

50/49T71

BERNARDINA, A. J.

USSR/Medicine - Dysentery

Mar 53

"The Diagnostic Significance of the Agglutination Reaction in Dysentery," Ye. I. Brutman, A. S. Benderekaya, D. I. Stepankovskaya, R. I. Reynerman, Odessa Inst of Epidemiol and Microbiol Imeni I. Mechnikov

"Zhur Mikrobiol, Epidemiol, i Immunobiol" No 3, pp 26-27

In carrying out the agglutination reaction in the case of children infected with Flexner bacilli, one must take into account the varying dynamics of the

244729

increase of antibodies. In the case of children, the reaction at a titer no lower than 1:200 must be regarded as diagnostic. In the case of adults the reaction is less specific: a titer no lower than 1:400 should be regarded as significant.

244729

EXCERPTA MEDICA Soc.7 Vol.10/4 Pediatrics April 56

697. BENDERSKAYA A.S. Med. Inst. Pirogoff, Odessa. Dysentery of the newborn and its distant sequelae (Russian text) PEDI-
 ATRIA 1955, 2 (14-19) *Chair of Pediatric Medical Faculty, Odessa Med. Inst. in Pirogoff*

Eighty-four cases, 2 days to one month old were observed. Symptoms were regurgitation and an occasional vomiting, loose stools with mucus periodically and insufficient weight gain. The atypical and uncharacteristic course of the disease and mild symptoms were the cause of only 29 cases being admitted with a correct diagnosis. Although 67 children were breast-fed, only 18 of all cases were in a good state of nutrition. Of the cases 41 were mild, 23 with typical symptoms: 19 of medium gravity, typical 8; grave 24, typical 11. The majority of the children had a loose anus, 8 had a patent anus and in two there was a prolapse of the rectum. Meteorism of some degree was apparent in all children and in a few paralytic ileus. All children had an enlarged liver and 6 an enlarged spleen. The following symptoms originating from disturbances of the CNS were present: Bad appetite or refusal of the breast in 28, vomiting in 34, irritability and bad sleep in 28, apathy and somnolence in 13, absence of abdominal and increase of patellar reflexes in 38, convulsions in 7. Disturbances of the cardiovascular system were frequent. Tenderness on palpation of the abdomen was present in 34 patients. In 71 complications of the respiratory system developed either on admission or later. The most frequent complications were seborrhoeic dermatitis, followed by otitis, hypoproteinaemic oedema and furunculosis. The temperature was usually slightly increased. An acute beginning was exceptional. The course was protracted. Shigellae were found in 15 cases: in 14 *Sh. flexneri*, in one *Sh. sonnei*. Coprocytological examination yielded positive results in 66% of cases. Nine children died. Forty-seven cases were followed for some time, some of them for 20 months. Of 28 mild cases 13 became chronic, of 9 medium cases 6, and of 10 grave cases 8. The morbidity of dysentery in the newborn depends on the sanitary conditions of its environment and on the same conditions depends the future course of the disease. Najman - Zagreb (XX, 7)

Chair of Pediatric Medical Faculty, Odessa Med. Inst. in Pirogoff

BENDERSKAYA, A.S., kand. med.nauk

Intradermal reactions with a hydrolysate of Flexner's and Sonne's bacilli (D. A. Tsuverkhalov) in various disorders of the gastrointestinal tract in children. *Pediatrics* 37 no.5:28-32 My '59. (MIRA 12:8)

1. Iz kliniki detskikh bolezney (zav. kafedroy - dotsent V.P. Chernyuk) Odesskogo meditsinskogo instituta imeni N.I. Pirogova (dir. - prof. I.Ya. Deyneka).

(SHIGELLA, immunol.

flexneri & sonnei hydrolysate, intradermal reactions in various gastrointestinal disord. in child (Rus))

(GASTROINTESTINAL DISEASES, in inf. & child intradermal reactions with Shigella flexneri & sonnei hydrolysate in various gastrointestinal disord. (Rus))

AGRICULTURE, ...; BERNARDINI, A.V. (1954)

Investigating new forms of tomatoes and other fruits
with a pollen mixture from different varieties. ...
0:22-007 H-D 104.

1. children-korrespondent. Vashenyayev ...
na ...

BENDERSKAYA, P. I.

26310 I issledovaniye svoystv gazobetona. Sbornik rabot po mest. Stroit. Materialam (upr. prom-iti stroit. Materialov i stroit. Detaley pri mosgor-
ispolkome, nauch.-issled. I zksperim. Stantsiya, yyp. 2-3, 1949, s. 63-69

SO: LETOFIS' NO. 35, 1949

EENDERSKAYA, R. I.

Benderskaya, R. I. and Fal'kov "Cover plates of plaster of Paris and wood fibers,"
Sbornik rabot po mest. stroit. materialam (Upr. prom-sti stroyaterialov i
stroydetaley Mosgorispolkoma, Nauch.-issled. i eksperim. stantsiya), Issue 1,
1948, p. 40-42

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

GIL'DENBERG, Z.G.; BENDERSKAYA, R.I.

Activation of cement by means of double grinding. Silikaty no.1:59-59
'59. (MIRA 13:2)

(Cement)

CA

Creatinine in rheumatics and its significance in functional diagnosis of the kidneys. S. M. Benderskaya (Kharkov Med. Inst.). *Voprosy Pediat. i Okhrany Materinstva i Detstva* 19, No. 3, 38-42 (1951). -- In rheumatic children the daily creatinine in the urine and the creatinine coeff. are low normal while the blood level of creatinine is either normal or is slightly above normal. The degree of the disturbance relates directly to the gravity of the disease. A creatinine coeff. below 10 may be regarded as an index of lowered renal function. Daily urinary creatinine elimination may serve as an index of functional sufficiency of the kidneys. G. M. Koudapoff

EXCERPTA MEDICA Sec 5 Vol. 10/10 Pathology Oct 57

3093. BENDERSKAYA S.M. *The pathogenesis of renal lesions in rheumatism. An experimental study (Russian text) PEDIATRIJA 1957, 2 (23-28) Illus. 2

It was assumed from the character of the histopathological changes seen in kidneys of children who died from acute rheumatism, that an allergic mechanism may be responsible for the occurrence of these changes. With a view to elucidating their pathogenesis, experiments were performed on rabbits sensitized with horse serum, human serum of healthy persons, and serum of rheumatic children respectively.

*Iz Kafedry detekikh bolezney
lechebnogo fakul'teta (zav.-
prof. G.I. Iets) Khar'kovskogo
meditsinskogo instituta.*

2078

It is claimed that the histological findings in kidneys of thus treated rabbits were identical with those encountered in children suffering from acute rheumatism. The degree of changes varied according to the way of sensitization: they were most pronounced in rabbits treated with serum of rheumatic children, least in animals receiving normal human serum. Similar vascular changes were found in other organs (myocardium, liver, spleen), thus, it is claimed, confirming their allergic character. From the close correlation between these experimental vascular changes in rabbits and renal histopathological findings in children with acute rheumatism, it is concluded that similar mechanisms (of allergic type) are responsible for both.

Kornel - Birmingham (XVIII, 5, 7)

BENDERSKAYA, S.H.
Abstract

Phagocytic activity of the blood in rheumatic children and the effect of therapy on its dynamics. *Pediatrics* 37 no.7:45-48
Jl '59. (MIRA 12:10)

1. Iz kafedry pediatrii (zav. - doktor med.nauk prof.S.M.Benderskaya) Ukrainского instituta usovershenstvovaniya vrachev (dir. - dotsent I.I.Ovsiyenko).

(RHEUMATIC FEVER, immunol.

phagocytosis, eff. of ther. in child. (Rus))

(PHAGOCYTOSIS, in var. dis.

rheum. in child., eff. of ther. (Rus))

BENDERSKAYA, S.M., prof.

State of the hepatobiliary system in children after a mild and
a moderately severe form of Botkin's disease. *Pediatrics* 42
no.5:42-50 My'63 (MIRA 16:11)

1. Iz kafedry pediatrii (zav. - prof. S.M. Benderskaya)
Khar'kovskogo instituta usovershenstvovaniya vrachev.

*

21 NII KOLYU... N.

VAYSMAN, G.A., professor; BRUDERSKAYA, S.N.

Quantitative determination of the methyl ester of salicylic acid in
drugs. Apt.delo 6 no.2:32-33 Mr-Ap. '57. (MIRA 10:6)

1. Iz kontrol'no-analiticheskoy laboratorii Kiyevskogo oblastnogo
aptechnogo upravleniya.
(SALICYLIC ACID)

BENDERSKAYA, YE.A.

Chair of Microbiology Medical School, MOKI, (-1944-)

"Reaction of agglutination and precipitation in diagnosis of bacterial dysentery."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., ~~1944~~ no. 6, 1944

SUTIN, I.A., BENDERSKAYA, Ye.A., POLYAKOVA, I.L., HAYMAN, Z.I., EPSHTEYN, P.V.
FOGEL'SON, T.A.

Epidemiology of diphtheria of nutritional origin. Zhur.mikrobiol.
epid. i immun. 29 no.9:55-58 S'58 (MIRA 11:10)

1. Iz Stalinskogo instituta epidemiologii, mikrobiologii i
gigieny:

(DIPHThERIAE, transm.

by ice cream (Rus))

(FOOD,

ice cream transm. of diphtheria (Rus))

BENDERSKIY, A.; KREINERMAN, G.

"Handling Goods in Sacks. Tr. from the Russian." p. 162,
(MECHANISACE, Vol. 2, No. 4, Apr. 1953, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4
No. 5, May 1955, Uncl.

BENDERSKIY, A., inzh.

In the primary organization of a lumbering camp. NTO 3 no.3:48 Mr '61.
(MIRA 14:3)

1. Igrinskiy lespromkhoz kombinata "Udmurtles."
(Igra--Lumbering--Machinery)

BENDERSKIY, A.; ASLANLY, M.; MATOV, N.; GODZIYEV, N.

Readers' letters. NTO 3 no. 5:47 My '61.

(MIRA 14:5)

1. Chlen soveta nauchno-tekhnicheskogo obshchestva Igranskogo lespromkhoza kombinata "Udmurtles" (for Benderskiy). 2. Chlen nauchno-tekhnicheskogo obshchestva legkoy promyshlennosti, g. Baku (for Aslanly). 3. Chlen nauchno-tekhnicheskogo obshchestva lesnoy promyshlennosti, Mozhayskogo lespromkhoza (for Matov). 4. Chlen prezidiuma Gruzinskogo respublikanskogo pravleniya Nauchno-tekhnicheskogo obshchestva stroitel'noy industrii (for Godziyev).
(Technical societies)

DANDERS, Ya.; YATSEVICHUS, I. [Jacevicius, I.]; GOL'DENBERG, A.; KHARIN, B.,
inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, F. (Gomel');
MAMYKIN, I. (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra,
Udmurtakoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIROTININ, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap '62.
(MIRA 15:4)

1. Sekretar' Respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Riga (for Danders).
2. Glavnyy inzh. mezhdugorodnoy telefonnoy stantsii, g. Vil'nyus (for Yutsevichus).
3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg).
4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova).
5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy).
6. Predsedatel' Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotinin).
(Technological innovations)

BENDERSKIY, G.A., inzh.

Determining central span deflections in single-beams with
constant rigidity. Prom.stroi. 38 no.1:50-51 '60.
(MIRA 13:5)

(Orders)

RAYTSEL'SKIY, L.A., inzh.; BENDERSKIY, G.L.

Design of a metal stand for the illumination of guarded areas.
Svetotekhnika 5 no.4:30 Apr '59. (MIRA 13:1)

1.Giprom Odesskogo sovnarkhoza.
(Electric lighting)

Benderskiy, I. I. Gukhlerner, I. M.

Cranes, Derricks, etc.

"Using a / shaped crane of 25 Tons Capacity for 40 Tons load"
Elek. sta. 23, No. 4, 1952

SO: Monthly List of Russian Accessions, Library of Congress, August, 1952 ~~1977~~, Uncl.

BENDERSKIY, I.I. Eng.

Increasing the load capacity of an overhead travelling crane from 30 to 50 tons
Elek. Sta. 23, no. 6, 1952

BENDERSKIY, I.I., inzhener; KOKLIN, V.S., inzhener.

Installing end boiler units in boiler installations. Elek.sta.
28 no.9:75-76 S '57. (MIRA 10:11)

(Boilers)

PERMITS, I.I., 1964.

Determination of the center of gravity of a block with nonsymmetrical
contours. Elek. stat. St. no. 1-80 JA '64. (MIRA 1966)

BENDERSKIY, I. L.

EX 38/49742

USSR/Engineering
Construction Equipment
Stacks, Exhaust

Mar 49

"Assembly Smokestacks by Using a Crawling Shaver,"
I. L. Benderskiy, L. M. Gukhlerner, Engineers, 1 p

"Elek Stants" No 3

Gives drawings and operating principle of an arrangement for erecting heavy steel smokestacks without the use of high towers.

38/49742

BANDERSKIY, I. M., auth.; ... W, I. K., auth.

OS-627 ... winding machine. ... 55 ... 5157-38
My 64 ... 1961

~~BEHNDERSKIY~~, S., kandidat tekhnicheskikh nauk.

Multibucket loader for ear corn. Muk.-elev.prom. 23 no.4:9-11 Ap
'57. (MLRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov
ego pererabotki.

(Loading and.unloading—Corn (Maize))

HENDERSKIY, SH. K.

"Investigation of Technological Losses in Flour Production." Sub 18 Jun 47,
Moscow Technological Inst of the Food Industry

Dissertations presented for degrees in science and engineering in Moscow
in 1947

S O: Sum No. 457, 18 Apr 55

^{K.}
BENDERSKIY, Sh., kandidat tekhnicheskikh nauk.

Using machinery to unload grain from trucks. Avt.transp. 32 no.1:
7-8 Ja '64. (MLRA 7:8)
(Dumping appliances) (Loading and unloading)

BENDERSKIY, Sh.

Improvement of a power shovel for unloading grain. Muk.-
elev.prom. 21 no.4:8-10 Ap '55. (MLRA 8:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i
produktov yego pererabotki
(Grain handling machinery)

BENDERSKIY, S., kand. tekhn. nauk

Mechanized movable bin for moist grain. Muk.-elev. prom. 24 no.7:
11-12 JI '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zerna i produktov
yego pererabotki.
(Grain--Storage)

YEVSEYEV, Yu.A., inzh.; BENDERSKIY, Sh.K., kand.tekhn.nauk, red.;
SIDOROV, V.Ya., red.; KHOMYAKOV, A.D., tekhn.red.

[Mechanization of loading and unloading work in agriculture;
a collection of translations from foreign periodical literature]
Mekhanizatsiia pogrushchno-razgruzochnykh rabot v sel'skom
khoziaistve; sbornik perevodov iz inostrannoi periodicheskoi
literatry. Red. Sh.K.Benderskii. Moskva, Izd-vo inostr.lit-ry,
1960. 242 p. (MIRA 13:6)

(Loading and unloading)

BENDERSKIY, Shul'm Kel'manovich, kand. tekhn. nauk; KHUVES, E.S.,
red.; KOZHEVNIKOVA, T.N., red.; SAVEL'YEVA, Z.A.,
tekhn. red.

[Overall mechanization of grain and earcorn handling at
grain-receiving stations] Kompleksnaya mekhanizatsiya ra-
bot s zernom i pochatkami kukuruzy na khlebopriemnykh
punktakh. Moskva, Zagotizdat, 1963. 104 p.
(MIRA 17:2)

BENDERSKIY, S. N.

Benderskiy, S. N. - "Every insulating material with air sealed circulation," In the symposium: Ssobshch. i. referaty (Vsesoyuz. nauch. -issled. in-t zerna i produktov ego pererabotki), Moscow, 1949, p. 46-49

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

BENDERASKIY, S. N.

Self propelled mechanical shovel Moskva. Gos. izd-vo tekhn. i ekon. lit-ry po voprosam zagotovok, 1952. 31 p. (Biblioteka rabotnika elevatorno-skladskogo khoziaistva) (52-67824)

TJ1417.B45

1. Shovels.
2. Grain - Transportation.

BENDERSKIY, Simon Nikolayevich, kandidat tekhnicheskikh nauk; VOTSURO, Andrei, Mikhaylovich, Inzhener-mekhanik; DENISEKOVA, A.M., redaktor; GOLUBKOVA, L.A., tehredaktor.

[Mobile grain-loading station] Peredvizhnaya stantsiya dlia poruzhki zerna. Moskva, Izd-vo tekhn. i ekon. lit-ry po voprosam mukosol'no-krupianoj, kombikormovoi promyshl. i elevatorno-skladnogo khoziaistva, 1956. 31 p. (MLRA 10:6)
(Grain handling machinery]

BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.K., prof., kand. tekhn. nauk; VASIL'YEV, P.N., inzh.; DOMFMAN, E.Ye., inzh.; ZHURA'LEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.N., inzh.; KRUGLOV, A.N., dots., kand. tekhn. nauk; KUKIBNYI, A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand. tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots., kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn. nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO, K.I., kand. tekhn. nauk, dots., retsenzent; VERENEYENKO, Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent; SEMENUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh., retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent; KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennost', 1964.
759 p. (MIRA 18:3)

(Continued on next card)

BENDERSKIY, S.N.--- (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun).
2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk).
3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kasheheyev).
4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki. (for Pal'tsev).

BENDERSKIY V. A.

51-4-25/26

AUTHORS: Benderskiy, V. A. and Blyumenfel'd, L. A.

TITLE: Calculation of the Gradient of Electric Field in Atoms.
(Raschet gradienta elektricheskogo polya v atomakh.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol.III, Nr.4,
pp.402-405. (USSR)

ABSTRACT: In radio-frequency spectroscopy it is necessary to find the gradient of the electric field produced by internal nuclear charges, since the quadrupole constant eQq (Q is the quadrupole electric moment of the nucleus, e is the electron charge) includes the quantity $q = \partial E / \partial z$, where E is the electric field intensity. Townes and Dailly (Ref.2) showed that q depends essentially on the field of p-electrons of the valence shell, since the effect of the filled shells and of the s-electrons of the valence band is equal to zero due to their spherical symmetry, if their polarization by p-electrons is neglected. Assuming that p_x and p_y -electrons do not alter the electric field gradient along the z-axis,

Card 1/4

31-4-25/26

Calculation of the Gradient of Electric Field in Atoms.

and taking into account the normalization condition, an expression for q in an atom is derived (Eq.3 on p.403). The value of q for atoms may also be found from the experimental data on spin splitting in fine structure of atomic spectra and on hyperfine magnetic structure. Since there are no useful data on the hyperfine magnetic structure, q for atoms may be found only from the atomic spectra with an accuracy of 5-10% (Ref.3). The present note deals with calculation of q using Eq.3 and Slater's functions with effective charges. The values thus calculated (given in Col.4 in Table 1) are compared with the experimental values found from splitting of the atomic spectra (Col.3, Table 1). The agreement between the calculated and experimental values is satisfactory for atoms of the second and third periods. For the fourth period the calculated values are considerably smaller than the experimental ones. This is due to strong polarization of the 18-electron shell, which has an important effect on the value of q . Polarization of the filled shells is calculated by an approximate method. The contributions to q due to polarization alone

Card 2/4

51-4-25/26

Calculation of the Gradient of Electric Field in Atoms.

(q_{polar}) are given in Table 2. These contributions decrease quickly for lower periods, showing that corrections for polarization are necessary only for atoms of the fourth to seventh periods. Taking q_{polar} into account the values of q for atoms of the fourth period are calculated and are given in the first row of the unnumbered table at the bottom of p.404. The second row in that table gives the experimental values. The agreement between the experiment and calculation is now the same for the fourth period as that obtained earlier for the second and third periods. The results, although obtained by a rough approximation, indicate that calculations of sufficient accuracy may be carried out. The present work confirms the accuracy of the effective atomic charges given by Barnes and Smith (Ref.4). Since q_{polar} may reach 20-30% of the experimental value in the fourth and higher periods it is obviously necessary to take it into account in calculation of the quadrupole constants of atoms as

Card 3/4

Calculation of the Gradient of Electric Field in Atoms.

SI-4-25/26

well as of molecules. There are 3 tables and 4 non-Slavic references.

SUBMITTED: May 3, 1957.

AVAILABLE: Library of Congress.

Card 4/4

AUTHORS: Tatevskiy, V. M., Benderskiy, V. A. SOV/73-25-7-4/84

TITLE: New Rules Governing the Physicochemical Properties of Hydrocarbons. II (Novyye zakonomernosti v fiziko-khimicheskikh svoystvakh uglevodородov.II)

PERIODICAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 7, pp. 1733 - 1737 (USSR)

ABSTRACT: In the present paper the authors show that the theory suggested by the authors (Refs 1-3) that all alkanes could be divided into groups according to the principle of the same structure of the ramified fragments of the hydrocarbon chain is actually proved experimentally by various physicochemical properties of paraffin hydrocarbons (alkanes). Such groups are given in the table. According to this table for each group of alkanes one of the physicochemical quantities typical of the group must depend linearly on the number of carbon atoms n in the alkane molecule of the given group (Schemes 1 and 2, where P_{20} denotes the constant coefficient, and Fig 1). In the abbreviated formula (2) P denotes the physicochemical constant, n - group, n the number of carbon atoms, $a^{(n)}$ the constant for the given group, and B that

Card 1,3

New Rules Governing the Physicochemical Properties
of Hydrocarbons. II

SV/15-20-7-1/74

for all groups. In figures 1-4 it is shown to which degree the linear rules (1) and (2) in every alkane group for various physicochemical properties of the alkanes are satisfied. All rules to be seen from the table and the figures can easily be used for the calculation of the physicochemical properties of the hydrocarbons of the given group not to be investigated, as far as the corresponding experimental data for some of the hydrocarbons of the same group are given, which is also of practical importance. There are 6 figures, 1 table, and 5 references, 4 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED: June 1, 1957

Car: 2/3

BENDERSKIY, V A

PHASE I BOOK EXPLOITATION 80V/4043

Tatevskiy, Vladimir Mikheylovich, Stanislav Semenovich Yarovoy, and Viktor Adol'fovich Benderskiy

Zakonomernosti i metody rascheta fiziko-khimicheskikh svoystv parafinovykh uglevodorodov (Regularities and Calculation Methods of Physicochemical Properties of Paraffin Hydrocarbons). Moscow, Gostoptekhzdat, 1960. 113 p. Errata slip inserted. 2,500 copies printed.

Exec. Ed.: L.A. L'vova; Tech. Ed.: I.G. Fedotova.

PURPOSE: This book is intended for synthesis chemists, engineers and scientific workers in the petroleum and petrochemicals industries, and aspirants and students working in the field of motor fuels and the chemistry of hydrocarbons.

COVERAGE: The book explains the methods for determining the basic physical and chemical properties of paraffin hydrocarbons (the alkanes), especially the high paraffins, which have been the subject of the most research in the last ten years. These methods make it possible to determine such properties of isomers of the higher hydrocarbons (C₉-C₁₅) as boiling point, density, molecular

Card 1/5

Regularities and Calculation Methods (Cont.)

SOV/4043

volume, molecular refraction, vapor pressure, heat evaporation, heat of combustion, and heat of formation. Tables of computed values of certain physical and chemical properties for the isomeric nonanes, decanes and undecanes are given. The researcher who has learned to use the analytical methods discussed in this book with respect to alkanes will be able to use similar methods for determining the physical and chemical properties of other hydrocarbons: alkenes, alkynes, alkadienes, alkylcyclohexanes, and alkylbenzols as well as other classes of organic compounds. Many properties of the C_5-C_{10} alkanes and certain

properties of the C_{11} have been determined by the authors. The author mentions

N. Nikitin, V.A. Ziborov, and A.A. Boldin. There are 54 references: 41 Soviet (including one translation), 1 German, and 12 English.

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